d. Monitoring.

1.) Annual monitoring of effluent is required for all extended treatment package systems that discharge to a reduced size drainfield or to a drainfield with a reduced separation distance to ground water.

2.) The monitoring will be for Biological Oxygen Demand (BOD) and Total Suspended Solids (TSS). Results for BOD and TSS that exceed 30 mg/l indicate the pretreatment device is not achieving the required 85% reductions.

3.) For those systems installed in nitrogen sensitive areas or are used as part of a nutrient-pathogen study, the following additional constituents will be monitored in addition to BOD and TSS: Total Kjeldahl Nitrogen (TKN) and Nitrate-Nitrite nitrogen (NO3+NO2-N). Results for Total Nitrogen (TKN + NO3+NO2-N) that exceed 24 mg/l indicate that the treatment device is not achieving the required 40% reductions.

4.) Samples are required to be analyzed by a certified laboratory and the monitoring results will be submitted as part of the Annual Report submitted to the local District Health Department.

5.) Additional O&M is required for devices that fail to achieve the above reductions and additional sampling is required to demonstrate the additional O&M was successful in restoring the treatment device to the above requirements.

3. Manufactured and "packaged" mechanical treatment devices shall be NSF approved or specified by a professional engineer licensed in Idaho and specializing in environmental or sanitary engineering.

4. If the system is experimental the system owner must provide a waiver of liability absolving the Department of any liability arising from operation or malfunction of the system.

Design.

1. All materials shall be durable, corrosion resistant and designed for their intended use.
2. All electrical components should be approved by the Department of Labor and Industrial Services.
3. Design for each specific application should be provided by a Professional Engineer licensed in the State of Idaho and specializing in environmental or sanitary engineering.

Construction.

1. Installation shall be by a licensed Public Works Contractor, licensed Plumber, licensed Electrician or licensed installer, as determined by the Director for the specific device being installed. If the device requires any on-site fabrication or component assembly a Public Works Contractor should be used.
2. The design or certifying engineer should provide a written statement, within 90 days of completion of installation, that the system has been installed and is operating in accordance with design and/or the manufacturer's recommendations.